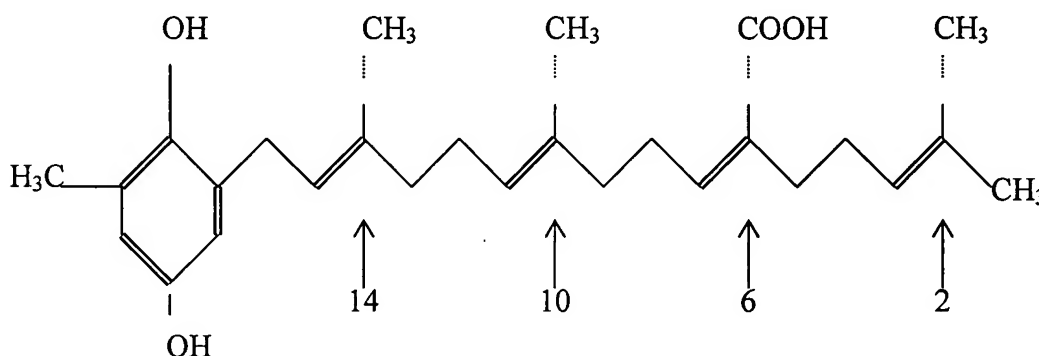


CLAIMS: The following is a listing of claims in the application marked up to indicate amendments made by Applicant. Following this listing of marked-up claims, is a clean copy of all claims in the application as currently pending.

1. (Please amend Claim 1 as follows) An antioxidant comprising a hydroquinone substituted polyunsaturated fatty acid that is useful in the treatment of cancer --wherein said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula



where the carboxy (COOH) group shown at position 6, can interchange, forming individual and separate chemical entities, with methyl (CH₃) groups at position 10, or position 14--.

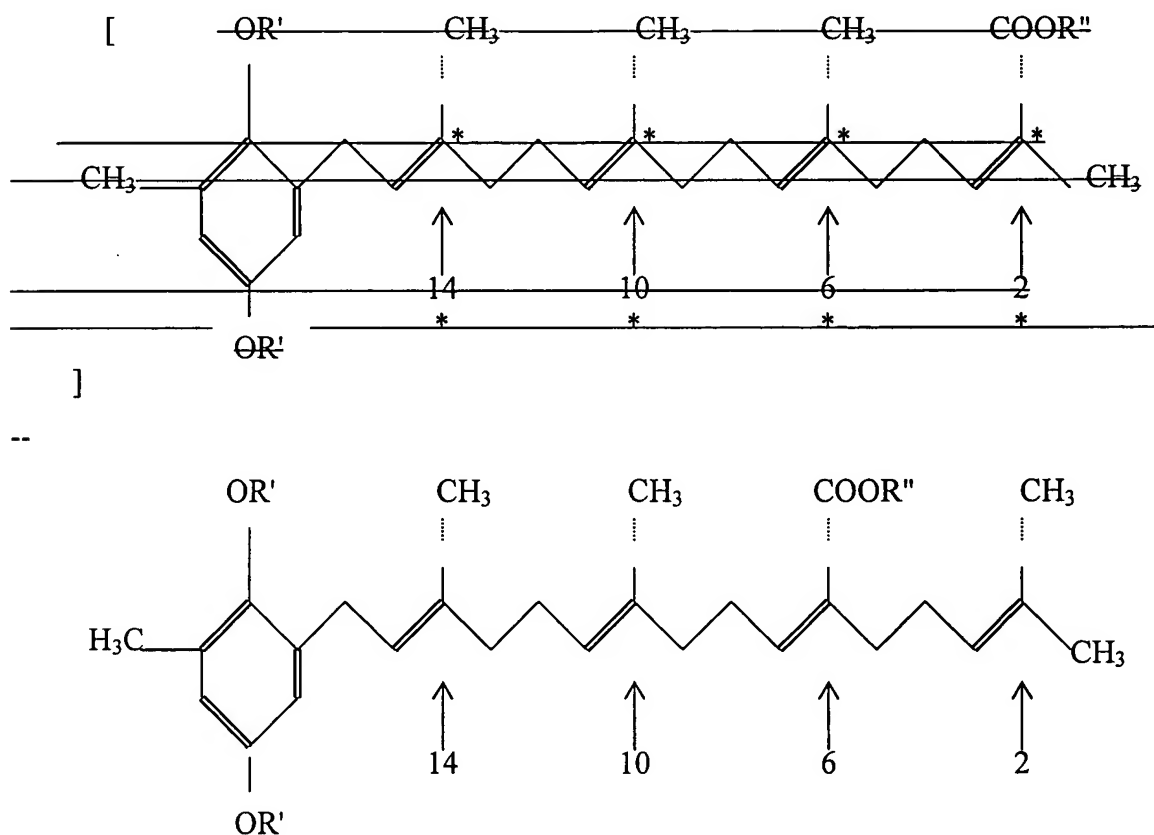
2. Please Cancel Claim 2.

4. (Please amend Claim 4 as follows) The antioxidant of Claim 3, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula:

where the carboxy (COOH) group shown at position 6 can interchange, forming individual and separate chemical entities, with methyl (CH₃) groups at position 10, or position 14--.

22. Please Cancel Claim 22.

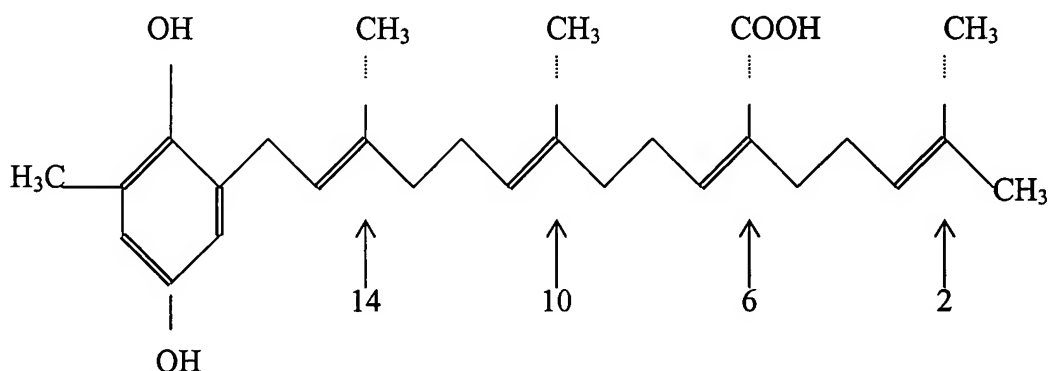
24. (Please amend Claim 24 as follows) The antioxidant of Claim 23, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula:



--where R' represents an acyl group and R'' represents an alkyl group.

CLAIMS: The following is a clean copy of all claims in the application as currently pending.

1. (CURRENTLY AMENDED) An antioxidant comprising a hydroquinone substituted polyunsaturated fatty acid that is useful in the treatment of cancer wherein said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula

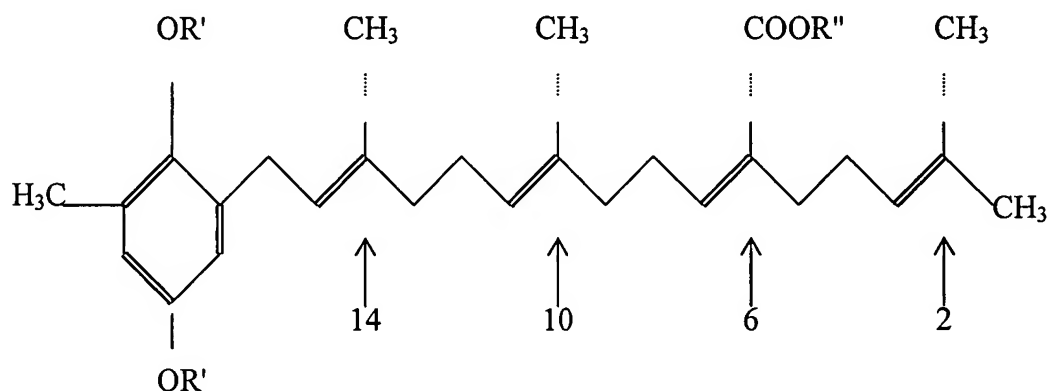


where the carboxy (COOH) group shown at position 6, can interchange, forming individual and separate chemical entities, with methyl (CH₃) groups at position 10, or position 14.

2. (CANCELED).

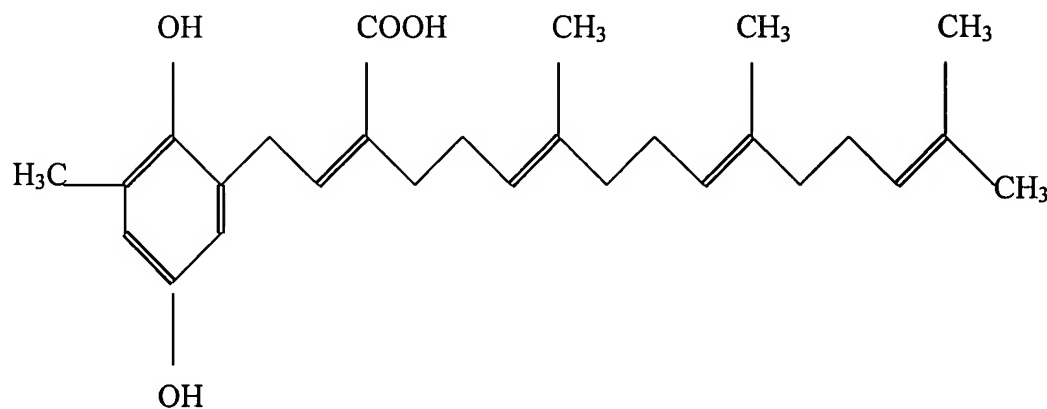
3. (PREVIOUSLY PRESENTED) The antioxidant of Claim 1, wherein said hydroquinone substituted polyunsaturated fatty acid is a derivative of said hydroquinone substituted polyunsaturated fatty acid.

4. (CURRENTLY AMENDED) The antioxidant of Claim 3, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula:

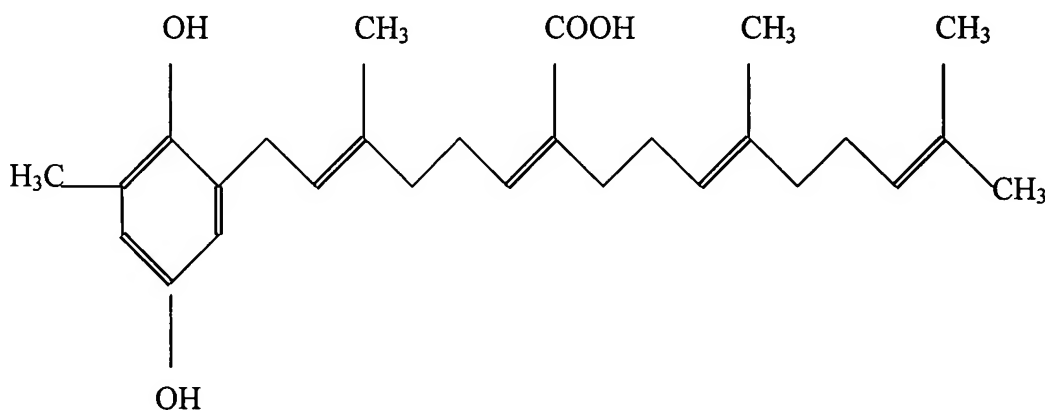


where R' represents an acyl group and R'' represents an alkyl group.

5. (PREVIOUSLY PRESENTED) The antioxidant of Claim 3, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula



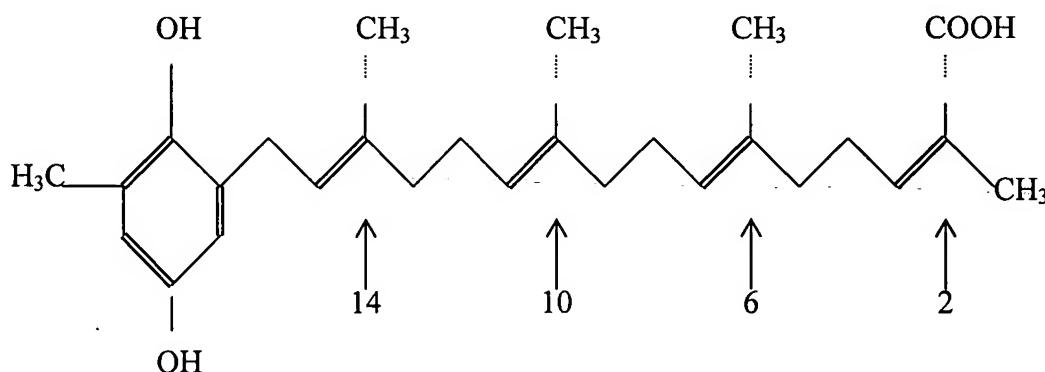
6. (PREVIOUSLY PRESENTED) The antioxidant of Claim 3, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula



7. (PREVIOUSLY PRESENTED) An antioxidant comprising a hydroquinone substituted polyunsaturated fatty acid that is useful in the treatment of cognitive disorders.

8. (PREVIOUSLY PRESENTED) The antioxidant of Claim 7, wherein said cognitive disorder is selected from the group consisting of Alzheimer's disease, learning disabilities, behavioral problems, and senile dementia.

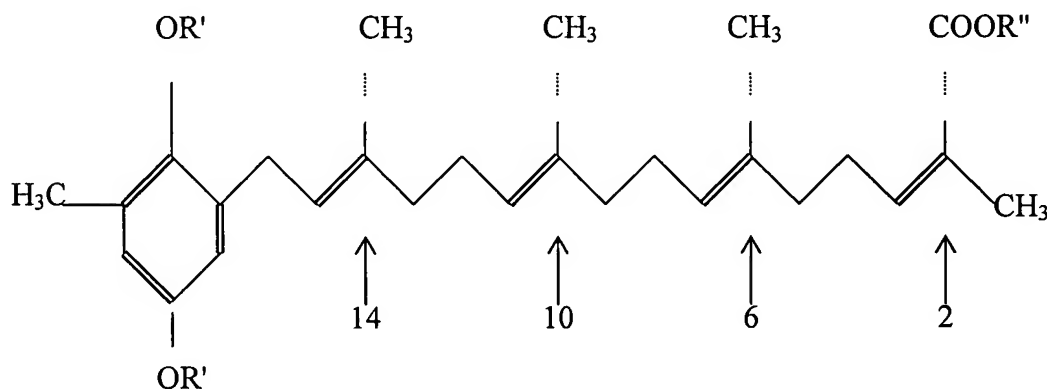
9. (PREVIOUSLY PRESENTED) The antioxidant of Claim 7, wherein said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula



where the carboxy (COOH) group shown at position 2, can interchange, forming individual and separate chemical entities, with methyl (CH₃) groups at position 6, or position 10, or position 14.

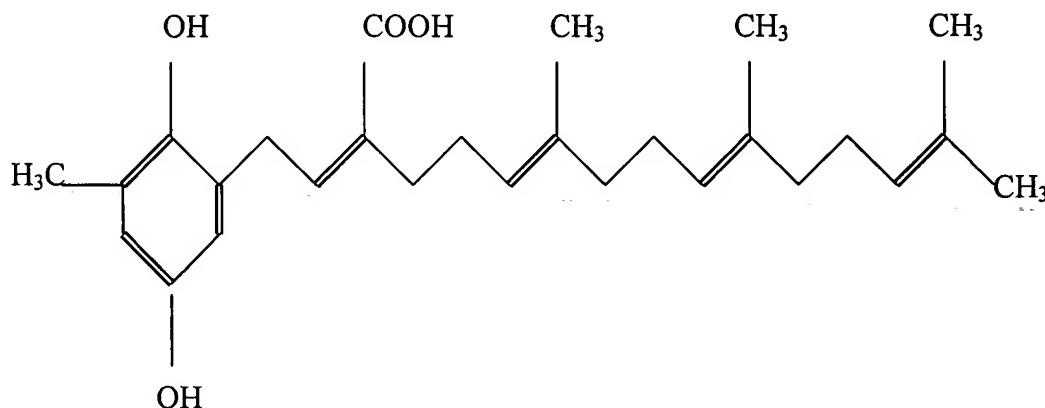
10. (PREVIOUSLY PRESENTED) The antioxidant of Claim 7, wherein said hydroquinone substituted polyunsaturated fatty acid is a derivative of said hydroquinone substituted polyunsaturated fatty acid.

11. (PREVIOUSLY PRESENTED) The antioxidant of Claim 10, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula

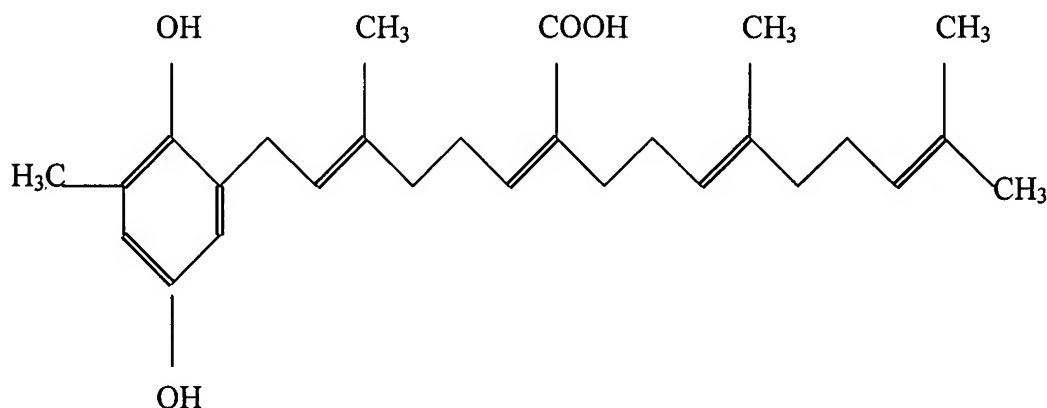


where R' represents an acyl group and R'' represents an alkyl group.

12. (PREVIOUSLY PRESENTED) The antioxidant of Claim 10, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula



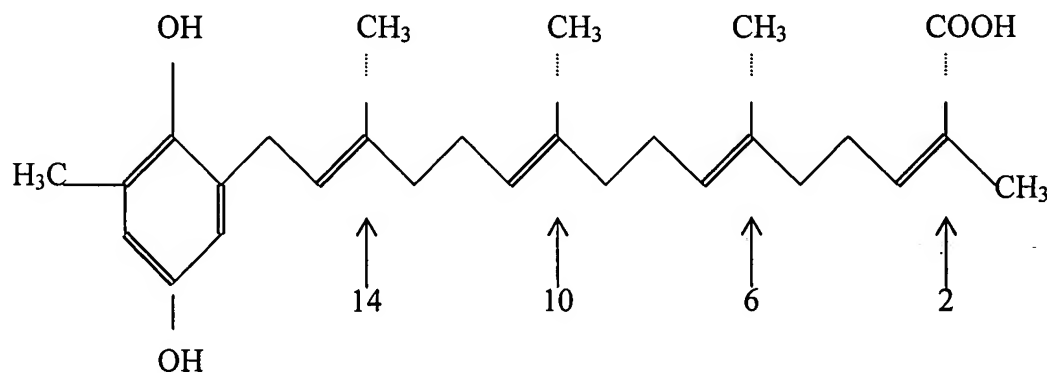
13. (PREVIOUSLY PRESENTED) The antioxidant of Claim 10, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula



14. (PREVIOUSLY PRESENTED) A method for treating cognitive disorders comprising administering a hydroquinone substituted polyunsaturated fatty acid to a patient in need of such treatment.

15. (PREVIOUSLY PRESENTED) The method of Claim 14, wherein said cognitive disorder is selected from the group consisting of Alzheimer's disease, learning disabilities, behavioral problems, and senile dementia.

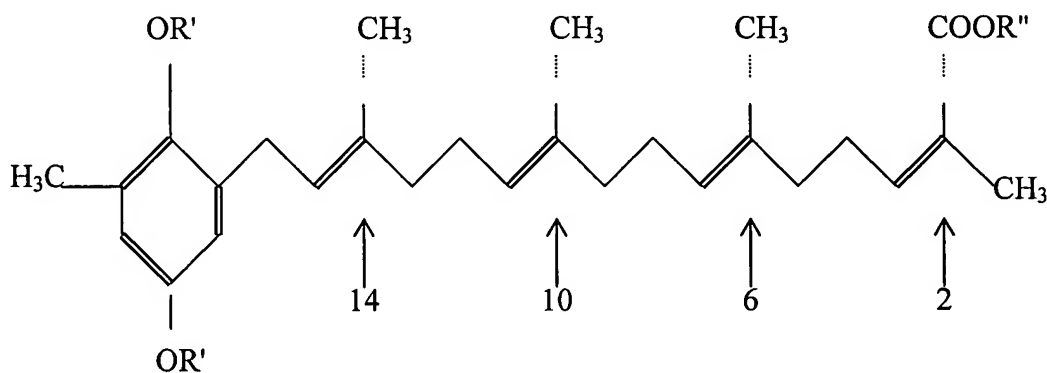
16. (PREVIOUSLY PRESENTED) The method of Claim 14, wherein said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula



where the carboxy (COOH) group shown at position 2, can interchange, forming individual and separate chemical entities, with methyl (CH₃) groups at position 6, or position 10, or position 14.

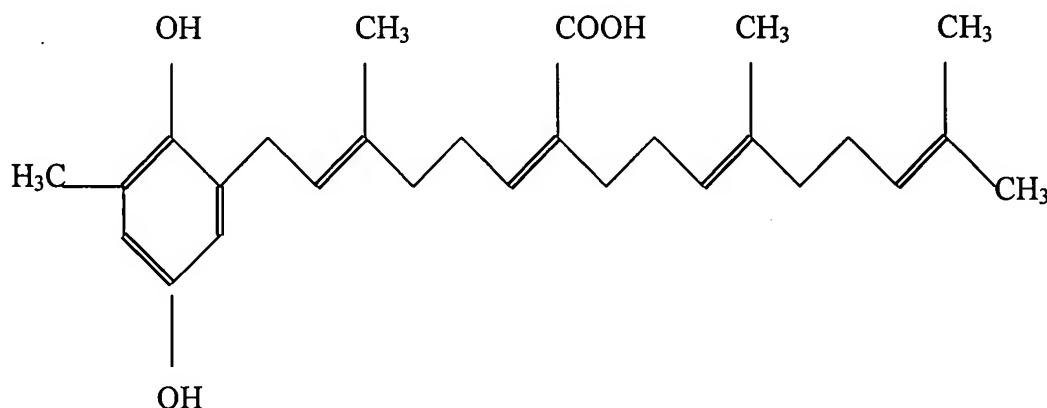
17. (PREVIOUSLY PRESENTED) The method of Claim 14, wherein said hydroquinone substituted polyunsaturated fatty acid is a derivative of said hydroquinone substituted polyunsaturated fatty acid.

18. (PREVIOUSLY PRESENTED) The method of Claim 17, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula

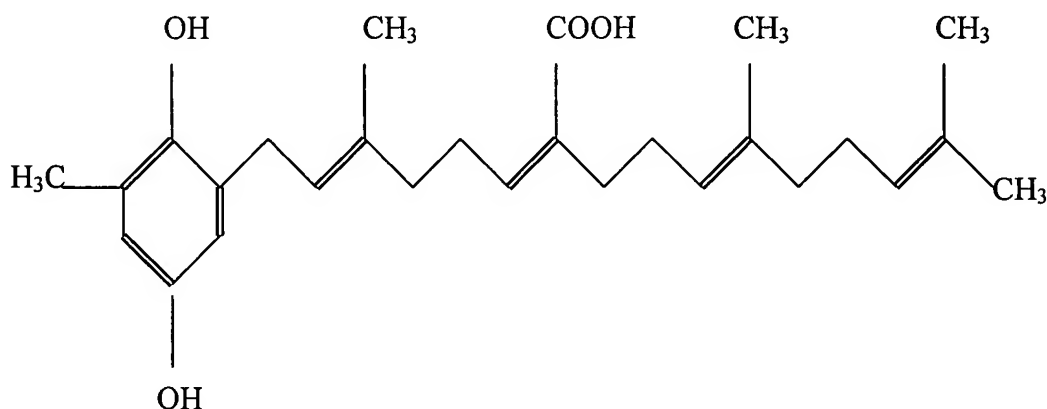


where R' represents an acyl group and R'' represents an alkyl group.

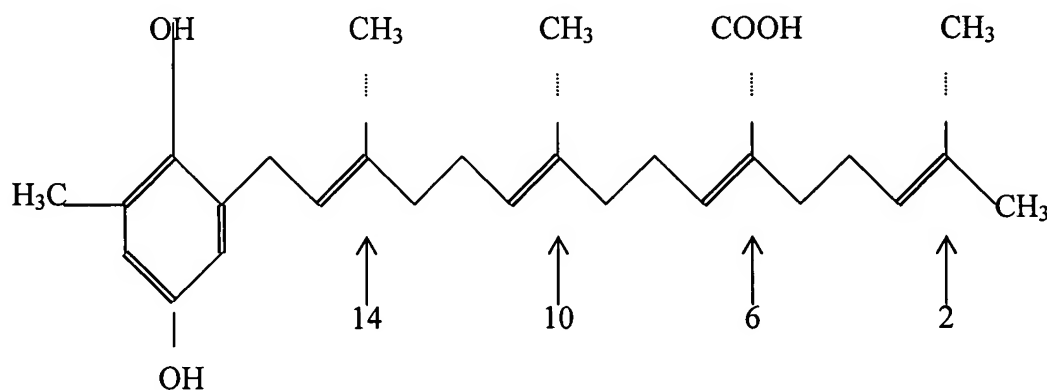
19. (PREVIOUSLY PRESENTED) The method of Claim 17, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula



20. (PREVIOUSLY PRESENTED) The method of Claim 17, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula



21. (CURRENTLY AMENDED) An antioxidant comprising a hydroquinone substituted polyunsaturated fatty acid that is useful in the inhibition of cell proliferation wherein said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula:

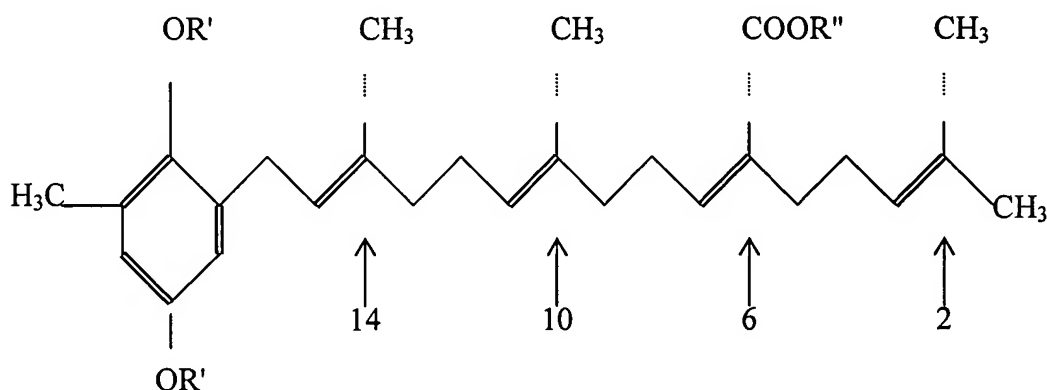


where the carboxy (COOH) group shown at position 6 can interchange, forming individual and separate chemical entities, with methyl (CH₃) groups at position 10, or position 14.

22. (CANCELED)

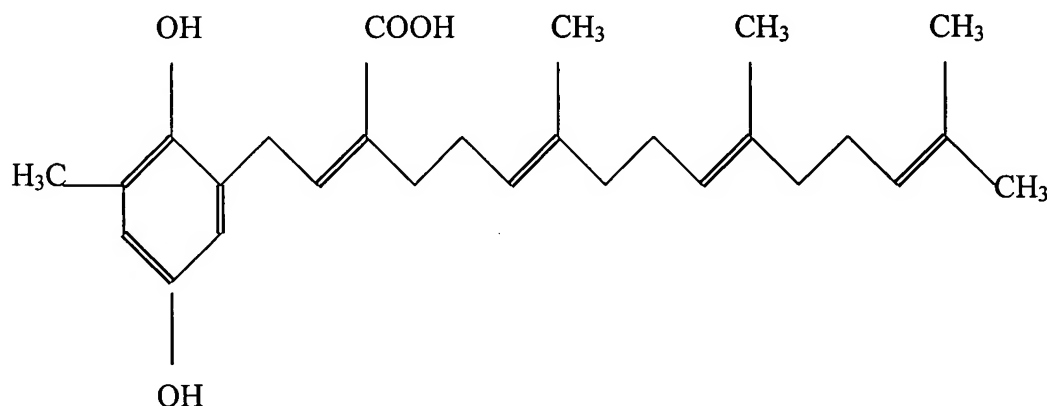
23. (PREVIOUSLY PRESENTED) The antioxidant of Claim 21, wherein said hydroquinone substituted polyunsaturated fatty acid is a derivative of said hydroquinone substituted polyunsaturated fatty acid.

24. (CURRENTLY AMENDED) The antioxidant of Claim 23, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula:



where R' represents an acyl group and R'' represents an alkyl group.

25. (PREVIOUSLY PRESENTED) The antioxidant of Claim 23, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula



26. (PREVIOUSLY PRESENTED) The antioxidant of Claim 23, wherein said derivative of said hydroquinone substituted polyunsaturated fatty acid comprises the chemical of the formula

